

What is claimed is:

1. A debugging supporting apparatus provided with:

an application to which is linked an OS simulator to simulate a specific OS on a general-purpose OS,

5 storage means for storing OS control information controlled by said application under the control of said OS simulator, and

an OS debugger to refer to or change said OS control information, said apparatus comprising:

10 a common file shared between said application and said OS debugger and storing common control information including the same data as the item constituting said OS control information,

writing means for writing on said common file specific item of said OS control information stored in said storage means as common control information, and

15 reading means for reading out said common control information stored in said common file.

2. The debugging supporting apparatus as defined in claim 1,

20 wherein said writing means is provided on the side of said application and writes on said common file changes in said specific item as common control information in compliance with instructions by said OS simulator and

25 wherein said reading means is provided on the side of said OS debugger and reads out the common control information stored in said common file in compliance with instructions by said OS debugger.

3. The debugging supporting apparatus as defined in claim 2 which is further provided with:

application communication means, in case said writing means writes on said common file changes in said specific item as common control information, sends directions to read out said common control information to said OS debugger from said application and

5 OS debugger communication means for, on receiving said directions, issuing to said reading means instructions to read out said common control information.

4. The debugging supporting apparatus as defined in claim 3

10 wherein said application communication means sends to said OS debugger directions to reads out said common control information and, at the same time, stops execution of said application, and

15 wherein said OS debugger communication means sends back to said application a direction to free said stopped application after said reading means reads out said common control information.

5. The debugging supporting apparatus as defined in claim 2 wherein said reading means reads out said common control information from said common file at any time.

20 6. The debugging supporting apparatus as defined in claim 2 wherein said reading means reads out common control information from said common file in a specific cycle.

25 7. The debugging supporting apparatus as defined in claim 1 wherein said specific OS is a real-time OS.

8. The debugging supporting apparatus as defined in claim 1

wherein said application control is control of task execution by said application.

9. The debugging supporting apparatus as defined in claim 1
5 wherein the common control information to be stored in said common file is concurrently said OS control information.

10. A debugging supporting apparatus provided with:

an application to which is linked an OS simulator to simulate a
10 specific OS on a general-purpose OS,

storage means for storing OS control information controlled by said application under the control of said OS simulator, and

an OS debugger to refer to or change said OS control information,
said apparatus comprising:

15 a common file shared between said application and said OS debugger and storing common control information including debugging instructions to change OS control information stored by said storage means,

debugging instructions writing means for writing said debugging
20 instructions in said common file as common control information,

debugging instructions reading means for reading out debugging instructions from common control information stored in said common file, and

OS control information changing means for changing specific item
25 forming said OS control information in accordance with debugging instructions read out by said debugging instructions reading means.

11. The debugging supporting apparatus as defined in claim 10

wherein said debugging instructions writing means is provided on the side of said OS debugger and writes in said common file said debugging instructions as said common control information in compliance with a request from said OS debugger, and

5 wherein said debugging instructions reading means is provided on the side of said application and reads out debugging instructions.

12. The debugging supporting apparatus as defined in claim 11 wherein said debugging instructions reading means reads out debugging instructions from said common file at any time.

13. The debugging supporting apparatus as defined in claim 11 wherein said debugging instructions reading means reads out debugging instructions from said common file in a specific cycle.

14. The debugging supporting apparatus as defined in claim 10 wherein said specific OS is a real-time OS.

15. The debugging supporting apparatus as defined in claim 10 wherein said application control is control of task execution by said application.

16. A debugging supporting method using a computer provided with:

25 an application to which is linked an OS simulator to simulate a specific OS on a general-purpose OS,

storage means for storing OS control information to control said application under the control of said OS simulator, and

an OS debugger to refer to or change said OS control information,
said method comprising the steps of:

writing specific item forming OS control information stored in said
storage means on a common file shared between said application and said
5 OS debugger and

reading out the common file where said specific item is written.

17. The debugging supporting method as defined in claim 16,
further comprising:

10 first communication step of sending directions to read out said
common file to OS debugger from said application in case said writing
means writes on said common file a change in said item, and

second communication step of reading out said common file on
receiving said directions.

15 18. The debugging supporting method as defined in claim 17,

wherein said first communication step sends to said OS debugger
directions to read out said common file and stops execution of said
application, and

20 wherein said second step sends back said application directions to
said application to free said stopped application after said common file is
read out.

19. The debugging supporting method as defined in claim 16,
25 wherein said common file is concurrently said OS control information.

20. A debugging supporting method using a computer provided
with:

an application to which is linked an OS simulator to simulate a specific OS on a general-purpose OS,

storage means for storing OS control information to control said application under the control of said OS simulator, and

5 an OS debugger to refer to or change said OS control information, said method comprising the steps of:

writing debugging instructions to change OS control information on

a common file shared between said application and said OS debugger,

10 reading out said debugging instructions from said common file, and changing specific item forming said OS control information on the basis of said read debugging instructions.

21. A recording medium readable by computer with programs recorded thereon, said computer provided with:

an application to which is linked an OS simulator to simulate specific OS on general-purpose OS,

storage means for storing OS control information to control said application under the control of said OS simulator, and

20 an OS debugger to refer to or change said OS control information, said programs being for the computer to execute the steps of:

writing specific item forming OS control information stored in storage means on a common file shared between said application and said OS debugger and

25 reading out said common file with specific item written therein.

22. The recording medium readable by computer as defined in claim 21, wherein programs are further recorded for the computer to

execute:

first step of sending directions to read said common file to said OS debugger from said application when said writing step writes changes of said specific item on said common file and

5 second step of reading out said common file on receiving said directions.

23. The recording medium readable by computer as defined in claim 22, wherein said first step sends to said OS debugger directions to
10 read out said common file and stops the execution of said application and

wherein said second step sends back to said application directions to free said stopped application after said common file is read out.

24. The recording medium readable by computer as defined in claim 21, wherein said common file is concurrently said OS control
15 information.

25. A recording medium readable by computer with programs recorded thereon, said computer provided with:

20 said application to which is linked an OS simulator to simulate specific OS on general-purpose OS,

storage means for storing OS control information to control said application under the control of said OS simulator, and

said OS debugger to refer to or change said OS control information,
25 said programs being for the computer to execute the steps of:

writing debugging instructions to change OS control information on a common file shared between said application and said OS debugger,

reading out said debugging instructions from said common file and

changing specific item forming OS control information on the basis
of said read debugging instructions.